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On page 401, in each of lines 1 and 8, please delete the phrase "
(D#11055)" and insert --09/159,405-- therefor.

On page 407, line 4, please delete the phrase " (D#11055)" and insert
--09/159,405-- therefor.

On page 439, line 22, please delete the phrase " (D#11045)" and insert
--09/159,516-- therefor.

On page 446, line 15, please delete the phrase " (D#11050)" and insert
--09/159,409-- therefor.

IN THE CLAIMS:

Please note that Applicants have found that claim 88 was erroneously skipped when the claims were originally filed. Thus applicants respectfully request that claims 89-110 be renumbered 88-109, respectively.

Please cancel claims 44 and 98 (formerly claim 99).

2/25/07
1. (Amended) An integrated system for providing a plurality of communications network management services and products to a customer over the public internet, said network management services and products accessible from a client workstation employing a client browser associated with said customer and [capable of] receiving web based communications from a communications service enterprise, said system comprising:

(a) one or more secure web servers for managing one or more secure client sessions over the internet in response to customer entry into said system, each said one or more secure web [server] servers supporting secure communications with said client workstation;

(b) [a plurality of] one or more client applications integrated within a web-based GUI and downloaded from [a] the one or more secure web [scrver] servers according to pre-determined customer entitlements, each of said one or more client [application] applications for providing a customer interface integrated within said web based GUI and enabling interactive communications with one or more communications network management resources provided by said communications service enterprise via [a] the one or more secure web [server] servers; and,

(c) each of said one or more secure web [server] servers supporting communication of request messages entered by said customer via said customer interface to said

one or more network management resources [capable of] providing a desired communications network management function;

wherein [said] one or more remote application resource processes said request messages and provides responses to said one or more secure web servers for secure uploading to said client browser and display via said integrated customer interface, [thereby enabling a customer to manage its communications network assets] said one or more network management resources including a system for generating invoice documents relating to communications management services provided by a communications service enterprise, comprising:

a client application downloaded from the one or more secure web servers for enabling selection and presentation of invoice documents in accordance with customer entitlements, said client application further generating an invoice request message in response to customer selection of a specific invoice option and forwarding the invoice request message via the secure web server; and

an invoice application server for maintaining a database of image files associated with invoice documents from the application service and receiving the invoice request message, said invoice application server accessing the database in response to a request message, generating a response message including a customer selected invoice document, and downloading said response message to said client workstation, whereby said customer selected invoice document is formatted in a manner suitable for display via said integrated client interface.

Sub E1 7 2. (Amended) The integrated system as claimed in claim 1, wherein said one or more secure web servers supports a secure sockets layer communications protocol including secure socket connections for encrypted communication between said client browser and said secure web server, said one or more secure [server] servers also providing session management including customer identification, validation, entitlements and encryption to link said session with said customer.

3. (Amended) The integrated system as claimed in Claim 2, further comprising: a dispatch server for communicating with [a] said one or more secure web[server] servers and a plurality of said one or more remote application [resource] resources, said dispatch server providing verification of system access and proxy generation for said system resources after customer's entitlements have been verified.

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8. (Amended) The integrated system as claimed in claim 2, wherein said downloaded web-based GUI comprises:

a backplane object downloaded with, and launched by said web-based GUI, said backplane object [capable of] launching said one or more client applications upon initiation by said customer, the backplane object further enabling inter-application communications among the client applications and also with said backplane object, [whereby] wherein said backplane object and the client applications interoperate with one another to provide said integrated customer interface to a plurality of communications network management products and services subscribed by the customer.

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8. (Amended) The integrated system as claimed in claim 5, wherein at least one of [a] the one or more network management [resource] resources comprises a server providing a customer authentication function and for downloading a logon object to be launched by said web-based GUI, the logon object [capable of] accepting logon transactions from the customer and creating a session object for communicating with said first server to provide said customer authentication, [whereby] wherein upon successful customer validation, the logon object sends a command to the authentication server to download said one or more client applications and said web-base GUI having the backplane object.

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8. (Amended) The integrated system as claimed in claim 6, further comprising: a user object for representing a current customer, the user object [further] communicating with said authentication server to determine the customer's entitlements to the web enabled communications network management services, [whereby] wherein the backplane uses the entitlements to display via said integrated interface only those web enabled services and products to which the user has privilege.

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8. (Amended) The integrated system as claimed in claim 7, wherein [a] at least one of said one or more client [application] applications is invoked directly by the backplane object when the user selects the service associated with the client application, the selected client application running in a frame independent from a web browser's window.

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10. (Amended) The integrated system as claimed in claim ¹⁵~~7~~, wherein the backplane object maintains session information received from a network management resource in static memory for the duration of a session, and enables the one or more client applications to access the static memory[, whereby a need for each of the client applications to communicate with remote network management resources for once obtained information is eliminated.].

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12. (Amended) The integrated system as claimed in claim ¹⁹~~10~~, wherein at least one of the [a] one or more network management [resource] resources comprises a server for providing a customer data report management function comprising and a database for maintaining an inventory of reports associated with a customer, [a said] at least one of said one or more client [application] applications including:

a report requestor application enabling creation and scheduling of customer specific reports pertaining to usage of their switched communications networks and initiating generation of report request messages for said one or more network management resources via said integrated interface; and,

a report viewer application enabling display of reports in accordance with customer-entitled reporting options.

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13. (Amended) The integrated system as claimed in claim ²⁰~~12~~, wherein said report manager server accesses report items from said database according to a received report request message, and generates a response message including a metadata description of reporting items to be included in said report,

[whereby] wherein customer-specific data from [a] at least one of said one or more network management [resource] resources and said metadata description of customer-selected reporting items are utilized to generate a completed report for presentation generate a completed report for presentation to said customer via said integrated interface.

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14. (Amended) The integrated system as claimed in claim ³¹~~13~~, wherein said report requestor application enables customization of reporting items to be included in said customer report, said server for providing a customer authentication function providing said reporting items [capable of being] customized according to said customer entitlements to said report requestor application when generating a report request message.

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15. (Amended) The integrated system as claimed in claim 13, wherein [a] at least one of the one or more network management [resource] resources further comprises a report scheduler system for initiating periodic generation of reports from other network management resources at a customer-specified frequency.

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16. (Amended) The integrated system as claimed in claim 15, wherein [a] at least one of the one or more network management [resource] resources includes a database for storing and maintaining customer specific report data to be reported to said customer, and, a centralized inbox server for receiving a report availability response from said report management server including a metadata description for generating said report,

said inbox server uploading said stored customer specific report data and the metadata description associated with the report data to said client workstation via [a] the one or more secure web [server] servers for generation and presentation of a customer report via said integrated interface.

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17. (Amended) The integrated system as claimed in claim 16, [a] at least one of said one or more client [application] applications comprises an inbox client application launched by the backplane for storing a notification alert received from said inbox server, said inbox client application receiving and presenting the notification alert to the customer via said integrated interface.

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18. (Amended) The integrated system as claimed in claim 17, wherein the inbox client application further includes a polling thread for detecting an incoming connection, the polling thread further starting a new thread upon detection of the incoming message, wherein the new starts and listens on a second secure connection for detecting new messages, while the polling thread received the incoming message on a first secure connection, and

[whereby] wherein multiple messages [may be] are downloaded simultaneously as detected.

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20. (Amended) The integrated system as claimed in claim 16, wherein [a] at least one of said one or more network management [resource] resources provides a priced call detail data

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reporting function for providing customer specific data pertaining to usage of a customer's switched communications network.

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28. (Amended) The integrated system as claimed in claim 20, wherein a at least one of said one or more network management [resource] resources providing a priced call detail data reporting function comprises:

a system for extracting call detail data records from billing systems generating priced call detail records specific to a customer's communications network,

a system for harvesting said extracted priced call detail records for storage in an database storage device; and

a decision support server for receiving customer request messages for said priced call detail data, said decision support server accessing said customer-specific priced call detail data from said database storage device and transmitting said customer-specific priced call detail data to said inbox server in accordance with said customer request.

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23. The integrated system as claimed in Claim 16, wherein [a] at least one of said one or more network management [resource] resources provides a near real-time unpriced call detail data reporting function for providing customer specific data pertaining to usage of a customer's switched communications network, said unpriced call detail data reporting service receiving customer request messages for customer-specific unpriced call detail data and transmitting said customer-specific unpriced call detail data to said inbox server in accordance with said customer request.

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25. (Amended) The integrated system as claimed in claim 23, wherein [a] at least one of said one or more network management [resource] resources comprises:

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a system for generating statistical data based on real-time call data obtained from a circuit-switched communications network, said statistical data being generated according to said customer entitlements; and,

a client application for integrating retrieved statistical data within a Web-based GUI for presentation to said customer via said integrated interface, said Web-based GUI being updated to contain statistical data at customer-specified time intervals.

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28. (Amended) The integrated system as claimed in Claim ³³25, wherein [a] at least one of said one or more network management [resource] resources comprises:

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a communications network configuration device for maintaining an inventory of customer's network call routing plans and associated call routing plan details, and interfacing with a plurality of network control elements for configuring a customer's communications network according to a desired call routing plan; and,

a network management server for receiving customer request messages for accessing said call routing plan details from said communications network configuration device, retrieving said call routing plan details according to customer entitlements, and downloading said call routing plan details for customers via said integrated interface.

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29. (Amended) The integrated system as claimed in Claim ³⁶28, wherein said report requestor application enables generation of messages specifying customer modification of said call-routing plan, said network management server receiving said messages via said integrated interface and translating said received modification request into commands for input to said network configuration device, [whereby] wherein said commands are forwarded to said network control elements for configuring said customer's network according to said request.

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31. (Amended) The integrated system as claimed in Claim ³⁸30, [wherein] further comprising a customer request message, said customer request message [includes] including an order for modifying and existing customer network call routing plan for a predetermined period of time, said network management server enabling said customer network to automatically revert to a corresponding call routing plan configured prior to invocation of said order at a customer-specified revert time.

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32. (Amended) The integrated system as claimed in Claim ³⁹31, wherein [a] said customer request message includes an order for modifying a percent allocation of call traffic routed to a network number used in a particular call routing plan for a predetermined period of time, said network management server enabling said allocation of call traffic routed to a number to automatically revert to a corresponding percent allocation specified prior to invocation of said order at a customer-specified revert time.

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35. (Amended) The integrated system as claimed in Claim ³⁶28, wherein [a] at least one of said one or more network management [resource] resources comprises:

a customer's switched data circuit network; and,
a device for periodically polling network switches of said switched data circuit network to obtain network performance data relating thereto and temporarily storing said network performance data; said integrated system further comprising: a broadband network server for receiving customer request messages for reporting network performance data, retrieving said network performance data according to customer entitlements, and downloading said network performance data to said customer for presentation via said integrated interface.

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48 40. (Amended) The integrated system as claimed in claim ⁴¹23, wherein [a] at least one of said one or more network management [resource] resources includes a system for providing an alarm management function including a device for deriving performance alarms based on performance statistics collected on the performance of a customer's data network; said integrated system further comprising: an event monitor server for receiving and storing the network performance statistics and the derived alarms from the deriving device, and communicating said network performance statistics and the derived alarms for presentation to said customer via said integrated interface.

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42. (Amended) The integrated system as claimed in claim ⁴⁹41, wherein [a] said report requestor application further enables customers to define and enter troubleshooting procedures for specific alarms or circuits pertaining to the data network via the integrated interface.

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43. The integrated system as claimed in claim ⁵⁰42, wherein [a] at least one of said one or more client [application] applications that is associated with said event monitor server enables customers to acknowledge receipt of a network alarm, via said integrated interface, said event monitor server comprising a process for automatically launching the trouble shooting procedure upon acknowledgment of the alarm associated with the trouble shooting procedure.

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44. (Amended) The integrated system as claimed in Claim 1 [44], wherein the database of image files further includes an object database, said invoice application server further comprising:

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a means [conversion process] for imaging documents by defining key information necessary to retrieve documents from the communications application service and compress the documents for storing; and

a means [store process] for loading the compressed documents into the object database.

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47. (Amended) The integrated system as claimed in Claim 28, wherein [a] at least one of the one or more network management [resource] resources further comprises a system for providing a circuit switched call center management function, said integrated system further comprising:

a client application downloaded from the one or more secure web [server] servers for enabling a customer to monitor, define, and manipulate call routing parameters, the client application further formatting customer defined parameters into client message transactions and communicating the client message transactions to the secure server over the secure connection; and,

a routing engine device for maintaining call routing rules and interfacing with said plurality of network control elements for directing call routing and receiving data statistics. the routing engine device further using the rules, the data statistics, and the customer defined parameters in determining where to route calls, whereby customer control of call routing via said integrated interface is enabled.

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48. (Amended) The integrated system as claimed in Claim 47, further comprising a proxy server for processing a plurality of transaction requests received from the client application via the one or more secure [server] servers by opening a connection to the routing engine device and retrieving information relating to the transaction requests and forwarding back the information to the client application via the one or more secure [server] servers, and wherein the client application presents the information to the customer at the client workstation.

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49. (Amended) The integrated system as claimed in Claim 48, further comprising one or more [database(s)] databases for storing the data statistics generated by the routing engine device and the plurality of network control elements, said one or more databases residing with the proxy server, the proxy server further processing predetermined transaction requests locally by retrieving information related to the transaction requests from said one or more database(s), and

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forwarding the information to the one or more client [application] applications.

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50. (Amended) The integrated system as claimed in Claim 3, wherein said session management provided by said one or more secure [server] servers includes web cookie generation at each instance of client identification to link a session with said client through a plurality of discrete client communications in said session to verify said client to said dispatch server at each transmission in said session.

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54. (Amended) The integrated system as claimed in Claim 53, further including RSA encryption for transmission of all customer data between said one or more secure web [server] servers and said dispatch server, and SSL encryption for transmission of all customer data between said secure web server and said client web browser.

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58. (Amended) A method for enabling customer management of [their] communications network assets via the public Internet, including provision of a plurality of services and products accessible from a client workstation employing a client web browser associated with a customer and capable of receiving web based communications from said communications service enterprise providing said products and services, said method comprising the steps of:

(a) enabling interactive communications between said system and said customer over the public Internet with an object oriented protocol invoked from within said client web browser, said protocol supporting customer identification, authentication and a determination of network entitlements for the customer;

(b) managing a plurality of customer sessions over the public Internet with a secure web server, said secure web server providing session encryption and management of the customer's session, said session management including the steps of identifying, validating, and determining the customer's entitlements within the network;

(c) initiating download of a web-based GUI from said secure web server, said downloaded web-based GUI capable of launching one or more of a plurality of client applications available to a customer according to pre-determined customer entitlements,

(d) providing a customer interface integrated within said web-based GUI upon launch of a selected client application, said customer interface enabling interactive communication of request messages with one or more of a plurality of communications network management

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resources capable of providing a selected communications network management function;

(e) a communications network management resource receiving said request messages, generating a proxy request corresponding to a request message, providing responses according to said request, and communicating said responses to said secure web server for secure uploading to said customer workstation for display via said integrated interface[, whereby customer management of its communications network management assets via the public internet is enabled],

wherein said one or more network management resources include a system for generating invoice documents relating to communications network management services provided by said communications service enterprise, said method further comprising:

downloading a client application from the secure web server for enabling selection and presentation of invoice documents in accordance with customer entitlements;

generating customer request messages including customer selection of a specific invoice option;

providing an invoice application server for maintaining a database of image files associated with invoice documents from the application service, said invoice application server: receiving the invoice request message from said customer;

accessing the database in response to a request message;

generating a response message including a customer selected invoice document;

downloading said response message to said client workstation; and,

formatting said customer selected invoice document in a manner suitable for display via said integrated client interface.

⁴¹ ~~60~~. (Amended) The method as claimed in Claim ⁵⁷ ~~58~~, further comprising providing a dispatch server for communicating with [a] said secure web server and each of said plurality of said network management resources, said dispatch server verifying system access and proxy generation for said system resources after said customer's entitlements have been verified.

⁴² ~~61~~. (Amended) The method as claimed in claim ⁴¹ ~~60~~, further employing digital certificates to authenticate [a] said secure web server to said client web browser.

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62. (Amended) The method as claimed in Claim 60, wherein said downloaded web-based GUI comprises a backplane object downloaded with, and launched by said web based GUI, said backplane object launching said client applications programs upon initiation by said customer, [the backplane object further enabling inter-application communications among the client applications and also with said backplane object,

whereby] wherein said backplane object and the client applications interoperate with one another to provide said integrated customer interface to a plurality of communications network management products and services subscribed by the customer.

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64. (Amended) The method as claimed in claim 63, further comprising:
providing a customer object for representing a current customer, the customer object communicating with said authentication server to determine the customer's entitlements to the web enabled communications network management services,

[whereby] wherein the backplane uses the entitlements to display via said integrated interface only those web enabled services to which the customer has privilege.

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65. (Amended) The method as claimed in claim 64, further including the step of:
executing [a] one or more of said plurality of client [application] applications directly by the backplane object when the customer selects [a] one or more client [application] applications associated with a desired communications network management service, the selected client application running in a frame independent from a web browser's window.

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66. (Amended) The method as claimed in claim 65, further including the step of:
maintaining session information received from [a] at least one of said one or more network management [resource] resources in static memory for the duration of a session, and enabling the client applications to access the static memory[, whereby a need for each of the client applications to communicate with remote network management resources servers for once obtained information is eliminated].

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67. (Amended) The method as claimed in claim 65, wherein said one or more of said plurality of client applications utilizing a set of common graphical user interface objects and the backplane for providing common look-and-feel desktop window management features.

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Sub E 1 7 ⁶⁹ 68. (Amended) The method as claimed in claim ⁶⁷ 66, wherein [a] at least one of said one or more network management [resource] resources comprises a report manager server for providing a customer data report management function and a database for maintaining an inventory of reports associated with a customer, said method further comprising:

providing a report requestor client application enabling creation and scheduling of customer specific reports pertaining to usage of their switched communications networks and initiating generation of report request messages for said one or more network management resources via said integrated interface; and,

providing a report viewer application enabling display of reports in accordance with customer-entitled reporting options.

⁷⁰ 69. (Amended) The method as claimed in claim ⁶⁹ 68, further comprising:
accessing report items from said database of inventory reports according to a received report request message; and,
generating a response message including a metadata description of reporting items to be included in said report, [whereby] wherein customer-specific data from a network management resource and said metadata description of customer-selected reporting items are utilized to generate a completed report for presentation to said customer via said integrated interface.

Sub E 1 8 ⁷³ 72. (Amended) The method as claimed in claim ⁷² 71, wherein [a] at least one of said one or more network management [resource] resources includes a database for storing and maintaining customer specific report data to be reported to said customer, and, a centralized inbox server for receiving a report availability response from said report management server including a metadata description for displaying said report, said method comprising:

uploading said stored customer specific report data and the metadata description associated with the report data from said inbox server to said client workstation via [a] said secure web server for generation and presentation of a customer report via said integrated interface.

⁷⁵ 74. (Amended) The method as claimed in claim ⁷⁴ 73, further comprising:
implementing a polling thread in said inbox client application for detecting an incoming message from the inbox server via a first secure connection; and

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starting a new thread upon detection of the incoming message, wherein the new thread starts and listens on a second secure connection for detecting new messages, while the polling thread receives the incoming message on a first secure connection[,

whereby multiple messages may be downloaded simultaneously as detected].

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76. (Amended) The method as claimed in Claim 74, wherein [a] at least one of said one or more network management [resource] resources provides a priced call detail data reporting process for providing customer specific data pertaining to usage of a customer's switched communications network, said priced call detail data reporting process comprising the steps of:

extracting call detail data records from billing systems generating priced call detail records specific to a customer's communications network,

harvesting said extracted priced call detail records for storage in a database storage device; and

implementing decision support server for receiving customer request messages for said priced call detail data, accessing said customer-specific priced call detail data from said database storage device, and transmitting said customer-specific priced call detail data to said inbox server in accordance with said customer request.

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78. (Amended) The method as claimed in Claim 74, wherein [a] at least one of said one or more network management [resource] resources provides a near real-time unpriced call detail data reporting function for providing customer-specific unpriced call detail data pertaining to usage of a customer's switched communications network, said method comprising:

providing an unpriced call detail data reporting server for receiving customer request messages for their unpriced call detail data;

obtaining said customer specific unpriced call detail data; and,

transmitting said customer-specific unpriced call detail data to said inbox server in accordance with said customer request.

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80. (Amended) The method as claimed in Claim 78, wherein [a] at least one of said one or more network management [resource] resources comprises a system for generating statistical data based on real-time call data obtained from a circuit-switched communications network, said statistical data being generated according to said customer entitlements, said method comprising:

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integrating retrieved statistical data within a Web-based GUI for presentation to said customer via said integrated interface, said Web-based GUI being updated to contain statistical data at customer-specified time intervals.

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93 73. (Amended) The method as claimed in Claim 72, wherein [a] at least one of said one or more network management [resource] resources comprises a communications network configuration device for maintaining an inventory of customer's network call routing plans and associated call routing plan details, and interfacing with a plurality of network control elements for configuring a customer's communications network according to a desired call routing plan; said method further comprising:

providing a network management server for receiving customer request messages for accessing said call routing plan details from said communications network configuration device; retrieving said call routing plan details according to customer entitlements; and, downloading said call routing plan details for presentation to customers via said integrated interface.

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95 94. (Amended) The method as claimed in Claim 84, wherein [a] said customer request message includes a unique customer identifier enabling downloading of specific call routing plan details associated with said customer identifier.

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98 93. (Amended) The method as claimed in Claim 83, [a] at least one of said one or more network management [resource] resources comprises: a customer's switched data circuit network; and, a device for periodically polling network switches of said switched data circuit network to obtain network performance data relating thereto and temporarily storing said network performance data, said method further comprising:

providing a broadband network server for receiving customer request messages for reporting network performance data;

retrieving said network performance data from temporary storage according to customer entitlements; and,

downloading said network performance data to said customer for presentation via said integrated interface.

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89. (Amended) The method as claimed in Claim [89] ~~88~~, further comprising:

enabling display of broadband network reports in accordance with selected customer reporting options, said customer reporting options including specification of graphical, tabular, and map views of said network performance data.

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90. (Amended) The method as claimed in Claim [89] ~~88~~, wherein said report viewer application includes supporting simultaneous multiple graph reporting views of specific broadband network performance data.

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91. (Amended) The method as claimed in Claim [89] ~~88~~, wherein said customer's switched data network generates alarm status indications, said broadband network server receiving said alarm status indications pertaining to said customer's network and communicating alarm status data to said customer workstation via said integrated interface.

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92. (Amended) The method as claimed in Claim [92] ~~91~~, further comprising the step of generating customer request messages specifying network performance thresholds for enabling reporting of specific data network behavior via said integrated interface.

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93. (Amended) The method as claimed in Claim [93] ~~92~~, wherein said report viewer supports display of a graphical view comprising an area map view having indicators depicting locations of a customer's data network, said method including enabling said customer to select said indicators on said graphical representation and providing a textual view of network performance characteristics relating to physical circuits supported at said selected network location.

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94. (Amended) The method as claimed in Claim [89] ~~88~~, wherein [a] said network management resource includes a system for providing an alarm management function including a device for deriving performance alarms based on performance statistics collected on the performance of a customer's data network; said method further comprising:

providing an event monitor server for receiving and storing the network performance statistics and the derived alarms from the deriving device, and
communicating said network performance statistics and the derived alarms for

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presentation to said customer via said integrated interface.

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95. (Amended) The method as claimed in claim [95] 94, further enabling customers to define and submit network performance thresholds specifying reporting of specific network behavior via said integrated interface, said event monitor server filtering said network alarms and performance statistics according to the customer-defined threshold for presentation to the customer at the client workstation.

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96. (Amended) The method as claimed in claim [96] 95, further comprising [enabling customers to define and enter] define and entering troubleshooting procedures for specific alarms or circuits pertaining to the data network via the integrated interface.

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97. (Amended) The method as claimed in claim [97] 96, providing a client application for enabling customers to acknowledge receipt of a network alarm, via said integrated interface, said event monitor server automatically launching a trouble shooting procedure upon acknowledgment of the alarm associated with the trouble shooting procedure.

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99. (Amended) The method as claimed in Claim [99] 58 wherein the database of image files further includes an object database, said invoice application server further:

converting invoice documents to images;

defining key information necessary to retrieve documents from the communications network management resource application service and compressing the documents for storing; and

loading the compressed documents into the object database.

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100. (Amended) The method as claimed in Claim [100] 99, wherein the database of image files further includes an index database, said method further including storing index pointers for pointing to the compressed documents in the index database.

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101. (Amended) The method as claimed in Claim 72, wherein [a] said network management resource further comprises a system for providing a circuit switched call center management function, said method further comprising:

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downloading a client application from the secure web server for enabling a customer to monitor, define, and manipulate call routing parameters, the client application further formatting customer defined parameters into client message transactions and communicating the client message transactions to the secure server over the secure connection; and,

providing a routing engine device for maintaining call routing rules and interfacing with said plurality of network control elements for directing call routing and receiving data statistics, the routing engine device further using the rules, the data statistics, and the customer defined parameters in determining where to route calls, whereby customer control of call routing via said integrated interface is enabled.

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102. (Amended) The method as claimed in Claim [102] ~~101~~, further comprising: processing a plurality of transaction requests received from the client application via the secure server by opening a connection to the routing engine device; and,

retrieving information relating to the transaction requests and forwarding back the information to the client application via the secure server; said client application presenting the information to the customer at the client workstation via said integrated interface.

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103. (Amended) The method as claimed in Claim [103] ~~102~~, further comprising: providing one or more database(s) for storing the data statistics generated by the routing engine device and the plurality of network control elements, said one or more databases operating in conjunction with a proxy server for processing predetermined transaction requests locally by retrieving information related to the transaction requests from said one or more database(s), and forwarding the information to the client application.

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105. (Amended) The method as claimed in Claim [105] ~~104~~, wherein said cookie is generated by a program on a separate server during an entitlements communications, after identification and authentication of the client.

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106. (Amended) The method as claimed in Claim [106] ~~105~~, further including: encrypting client identification, authentication and said session management cookie during each transmission.